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In this volume Prof. Brun figures and describes eighty-eight new species and twenty-five new varieties of diatoms. He also constitutes three new genera, viz: *Cotyledon*, *Radiopalma* and *Hydrosilicon*. These are all difficult forms to place and doubtless will give rise to some discussion. The plates are of unusual excellence, being phototypes from photo-micrographs, made by Dr. H. Van Heurck and M. Otto Muller by the aid of the new apochromatic lenses of Zeiss.

C. H. K.

#### Index to Recent Literature Relating to American Botany.

- Atriplex corrugata*. S. Watson. (Bot. Gaz. xvi. 345).  
A new species from Colorado.
- A New Herbarium Pest*. C. V. Riley. (Bot. Gaz. xvi. 334, illustrated).
- Botanical Excursion to "The Chats"—A.* (Ottawa Nat. v. 197).
- Botanical Section—Report of*. James Fletcher and others. (Ottawa Nat. v. 200).
- Botanical Section of the Phila. Acad. Sci.—Report of*. J. H. Redfield. (Proc. Acad. Nat. Sci. Phila. 500, 1891).
- Botanical Section—Report of*. Proc. Rochest. Acad. Sci. i. 120).  
*Lithospermum hirtum* and *Veronica Buxbaumii* are among other interesting plants reported from the vicinity of Rochester. Attention is called to the curious differentiation in the size and division of the leaves of *Taraxacum officinale*, variations not noted in the botanies.
- Cæsalpinia paucijuga*. (Hook. Icones Plant. x. pl. 1977).
- Canna flaccida*. (Meehan's Month. ii. 36).
- Catostemma fragrans*. (Hook. Icon. Plant. x. pl. 1986).
- Clematis paniculata*. (Gard. & For. v. 90).
- Cynoches glanduliferum*. R. A. Rolfe. (Gard. Chron. xi. 204).
- Das Nicht vorkommen der Wurzel von Polygala alba mit der Senega des Handels*. J. W. Lloyd. (Pharm. Rundsch. x. 51).
- Desmid—A Proposed New*. Wm. N. Hastings. (Am. Micros. Journ. xiii. 29).  
Description and figure of *Gonatozygon aculeatum*.
- Elms of the St. Lawrence Valley—The*. T. H. Hoskins. (Gard. & For. v. 86).

*Etude sur la Classification Naturelle et la Morphologie des Lichens du Brésil.* Edouard A. Wainio. (Acta Soc. Fauna et Flora Fennica, vii. Helsingfors, 1890).

The entire volume of 256 pages of the acts of this Finland society is devoted to the description and classification of Brazilian lichens.

*Ferns—Synoptical List.* Bull. Bot. Depart. Jamaica, Nos. 22, 23, 25, 26.

*Filices Mexicanæ.* I., II. (Gard. & For. iv. 448-450, f. 71; 483, 484, f. 75).

An enumeration of the ferns collected by C. G. Pringle in Mexico. *Asplenium Pringlei* and *Hemionitis elegans* are figured, and *Asplenium dubiosum* is described as new.

*Flora of Northern Yucatan—Observations on.* Angelo Heilprin. (Proc. Amer. Philos. Soc. xxix. 137-144).

*Florida Pines.* (Gard. & For. v. 73; illustrated).

*Flora Ottawaensis.—Additions Made Since Last Report.* (Ottawa Nat. v. 204).

*Forest Trees of Oregon—The.* II., III. Thos. Condon. (West Am. Sci. vii. 115-117; 142-143).

Species under the genera *Picea*, *Thuya*, *Libocedrus*, *Chamæcyparis*, *Juniperus*, *Taxus*, *Quercus*, *Acer*, *Fraxinus*, *Alnus*, *Oreodaphne*, *Arbutus*, *Cornus*, *Populus* and *Prunus*.

*Forest Vegetation of the Upper Mississippi.* I., II. L. H. Pammel. (Gard. & For. iv. 460, 461; 472).

*Fungus Diseases of Iowa Forage Plants.* L. H. Pammel. (Extracts of a paper read before the Iowa Acad. Sci., reprint, no date).

*Fungus Diseases of the Sugar Beet.* L. H. Pammel. (Bull. No. 15, Iowa Agric. Ex. Station; illustrated).

*Fungi Guaranitici.* C. Spegazzini. (Rev. Argent. Hist. Nat. i. 398-432).

This is the concluding part of the descriptive list of Argentine Fungi, published by Senor Spegazzini. A very large number of new species are proposed.

*Fungi—North American.* A. P. Morgan. (Journ. Am. Soc. Nat. Hist. xiv. 141, contin. from xiii. 21).

*Interesting Items on Diatoms.* Chas. F. Cox. (Am. Microsc. Journ. xiii. 32).

*Jeffersonia diphylla*, and Its Occurrence near Rochester—On.  
(Ch. S. Dodge. (Proc. Rochest. Acad. Sci. i. 175).

*Leguminosæ novæ v. minus cognitæ Austro-Americanæ*. P. Taubert. (Flora lxxv. 68; illustrated).

New species are described in the following genera: *Inga*, *Cal-liandra*, *Mimosa*, *Piptadenia*, *Cynometra*, *Bauhinia*, *Cassia*, *Sclerolobium*, *Tounatea*, *Sweetia*, *Lonchocarpus*, *Platymiscium*. A new genus, *Goniorrhachis*, with one species, *G. marginata*, based on Glaziou's No. 13,726, is also described and figured.

*List of the Indigenous Ferns of the Vicinity of Rochester, with Notes*—A. Ch. W. Seelye. (Proc. Rochest. Acad. Sci. i. 186).

*Making an Herbarium, or Preserving Plants*. W. J. Beal. (Science, xix. 123).

*Mariposa Lilies*. Ernest H. Krelage. (The Garden xli. 144; illustrated).

Notes and descriptions of seventeen species of the genus *Cal-ochortus* cultivated at Haarlem, Holland.

*Mosses of Lancaster County, Pennsylvania—Preliminary List of*.  
J. K. Small. Pamphlet, 8 pp., published by the author. Feb., 1892.

This list of one hundred and fifty species has been compiled from the collections of Prof. Porter, with a few recent additions, the object being to "incite collectors to gather specimens in the less explored parts of the country." It is a valuable contribution to the subject of the distribution of our eastern mosses. Names of collectors and localities are given. E. G. B.

*New Plants Collected by W. G. Wright in Western Mexico*. B. L. Robinson. (Bot. Gaz. xvi. 340).

*Ayenia Wrightii*, *Mimosa affinis*, *Buddleia Wrightii* and *Citharexylum Cinoloanum* from the Mazatlan river are described as new.

*Notes on the Fungus Causing Damping Off and Other Allied Forms*. T. W. Galloway. (Trans. Mass. Hort. Soc. Part i. 1891).

*Pythium De Baryanum* and *Saprolegnia monoica*, illustrated.

*Notes on Nomenclature*. Geo. B. Sudworth. (Gard. & For. v. 98).

The identity of *Quercus Kelloggii*, Newberry (1857), is es-

tablished with *Q. tinctoria*, var. *Californica*, Cooper (1756), which should now stand as *Q. Californica* (Cooper). The oldest specific name for *Quercus tinctoria*, Bartram (1791), is *Q. velutina*, Lamarck, published two years previous, in 1789. There are, in fact, two names older than Bartram's, as Aiton in *Hortus Kewensis* (1789) published the name *Q. discolor* for the Quercitron.

In *Garden & Forest* ii., 471, Professor Sargent gives *Quercus cuneata*, Wangenheim (1787), as the earliest reliable specific name for Michaux's *Quercus falcata*, passing over Marshall's (1785) two names, *Q. rubra digitata* and *Q. rubra montana*, on account of the general vagueness of the descriptions. Mr. Sudworth points out the advisability of inquiring if there is not sufficient reason for adopting Marshall's *Quercus nigra digitata* (1785), the identity of which with the Spanish oak he does not seem to doubt; in which case *Quercus digitata* would stand instead of *Q. cuneata*, Wangenheim, or *Q. falcata*, Michx.

*Notes on North American Trees. XVI., XVII., XVIII., XIX.* C.

S. Sargent. (*Gard. and For.* iv. 340, 435, 448, 472).

*Rhus venenata* and *R. cotinoides* are critically discussed, as well as *Cercis reniformis*, *Robinia viscosa* and *Piscidia Piscipula*. *Notes upon Peronosporaæ for 1891.* Byron D. Halsted. (*Bot. Gaz.* xvi. 338).

*On the Seed-Coats of the genus Euphorbia.* L. H. Pammel. (*Trans. St. Louis Acad. Sci.* v. 543, illustrated reprint).

*Peculiar Forms of Proliferation in Timothy.* J. W. Toumey. (*Bot. Gaz.* xvi. 346, with plate).

Notes on this subject may be found in Master's *Vegetable Teratology*, pp. 115, 138 and in *BULLETIN*, vii. 118, 119; xi. 120. *Pinus latifolia*. T. S. Brandegee. (*Gard. and For.* v. 111).

Notes on this rare tree from the Santa Rita Mts., Arizona.

*Possibilities of our Native Grapes.* T. V. Munson. (*Am. Gard.* xii. 580-586).

*Prunus hortulana.* L. H. Bailey. (*Gard. and For.* v. 90).

*Pucciniosira, Chrysopsora, Alveolaria, und Trichopsora, Vicr neue Uredineen Gattungen mit tremelloider Entwicklung.* G. de Lagerheim. (*Ber. Deut. Bot. Gesel.* ix. 344).

The description of four new genera and six species from Ecuador.

- Reiscultur, insbesonder in Brasilien—Die.* Walter May. (Bot. Zeit. I. 56).
- Relationships of the Archegoniata—On the.* Douglas Houghton Campbell. (Bot. Gaz. xvi. 323).
- Root Foods of the Seneca Indians.* G. H. Harris. (Proc. Roches. Acad. Sci. i. 106).
- Schinusarten Brasiliens—Die Officinellen.* Theo. Peckolt. (Pharm. Rundsch. ix. 86-89, continued).
- Smuts of Oats and Wheat—Treatment of.* (U. S. Depart Agric. Farmers Bull. No. v. illustrated).
- Solandra grandiflora.* (Gard. and For. v. 92).
- Some Cercosporæ from Alabama.* Geo. F. Atkinson. (Journ. Elisha Mitchell Sci. Soc. viii, part ii-i).
- Southern Tomato Blight—The.* Byron D. Halsted. (Miss. Agric. Ex. Sta. Bull. xix).
- Spring in West Virginia.* Danske Dandridge. (Gard. and For. v. 100).
- Spruces and Firs on the Maine Coast.* (Gard. and For. v. 97, illustrated).
- Sulla presenza di Sferiti nell Agave Mexicana.* Louigi Re. (Ann. R. Inst. Bot. Roma. v. 38).
- Swans-neck Orchids—The.* R. A. Rolfe. (Gard. and For. v. 88). Notes and descriptions of fifteen species of the curious genus *Cynoches* from Central and South America.
- Symbolæ ad Floram Brasiliæ Centralis cognoscendam.* Eug. Warming. (Vidensk. Medd. Naturh. For. Kjob. 1890, 24-53; 158-165, 182-205, Tab. II-VII). Parts 34, 35 and 36 of these studies of the Brazil flora, edited by M. Warming are contained in this volume. Part 36, devoted to the Desmidieæ, is contributed by F. Borgesen, and numerous new species are described in the genera *Closterium*, *Micrasterias*, *Euastrum*, *Cosmarium* and *Staurastrum*. Part 35 contains the Nyctagineæ, with new species of *Pisonia* described by A. Heimarl. Part 36 contains notes on Compositæ.
- Tan Bark Oak—The.* Carl Purdy. (Gard. and For. v. 118). *Quercus densiflora*, one of the most beautiful of the Californian oaks, ranges from Monterey County north to Mount Shasta in the Coast Range, where it attains its greatest size and perfection in the

Redwood belt and is there now rapidly becoming the prey of the bark peelers. The commercial value of its bark is so great that large quantities are being hauled over rough mountain trails to the railroads or seacoast. The bark only is used and great masses of the wood are left to rot or become fuel for forest fires, and unless the onslaught is checked, the large and valuable growth of this fine oak will be entirely destroyed.

*Tradescantia pilosa*. (Meehan's Month. ii. 36).

Illustrated under the name of *T. rosea*.

*Treatment of Smuts of Oats and Wheat*. W. T. Swingle. (U. S. Depart. Agric. Farmers' Bull. No. v).

*Trichomanes radicans*. (Meehan's Month. ii. 33, illustrated).

*Trinidad Royal Botanic Gardens—Annual Report on the*. (Gov. Print. Est. Port of Spain, 1891).

This is an imposing document, minutely setting forth the work accomplished in every direction in this flourishing West Indian garden. Illustrations are given of *Couroupita Guianensis*, *Latania glaucocephala* and *Licuala* sp., and also elaborate diagrams of the organs by which *Coryanthes macrantha* is fertilized by a bee.

*Touroulia Jenmani*. (Hook. Icon. Plant. x. pl. 1998).

*Weeds of California—The*. E. W. Hilgard. (Gard. and For. 316, 328, 375, 424, 458, 604).

A large number of our Eastern pests are noted, such as *Brassica* sp., *Rumex* sp., *Chenopodium* sp., etc. *Portulaca oleracea* does not seem to be spreading, although it has appeared in a few localities. *Calandrinia Menziesii* is a native that is classed as a "weed" as is also *Eschscholtzia Californica*, *Oxalis corniculata* and *Erodium cicutarium*.

Among the Leguminosæ are mentioned *Medicago denticulata*, *Melilotus Indica*, *Lupinus formosus*, *Glycirrhiza lepidota*. The Umbelliferae are said to include hardly a single plant that can be classed as an obnoxious weed. Among the Compositeæ are noted *Centaurea Melitensis*, *C. solstitialis*, *Anthemis Cotula*, *Silbyum Marianum*, *Xanthium Canadense*, *X. spinosum*, *Senecio vulgaris*, *Sonchus oleraceus* and *Erigeron Canadense*.

*Winter Rambles in the Pine Barrens. II., III.* E. J. Hill. (Gard. and For. v. 74-110).

*Ueber einige Licania Arten.* Karl Fritsch. (Oestr. Bot. Zeitschrift, 1891, No. 1, reprint).

Owing to the name of *Licania pallida* having been published by Sagot in 1883 for another plant, the species No. 2442 of Dr. Rusby's collection from Bolivia described under that name in 1890 is now named by Dr. Fritsch *Licania Brittoniana*.

*Zur Biologie der Iochroma macrocalyx*, Benth. G. de Lagerheim. (Ber. Deut. Bot. Gesel. ix. 348, illustrated).

### Proceedings of the Club.

WEDNESDAY EVENING, FEBRUARY 24TH, 1892.

Vice-President Mr. Thos. Hogg in the chair and twenty-five persons present.

Dr. Britton exhibited a specimen of *Sisymbrium Hartwegianum*, Fourn., collected by Mr. E. P. Sheldon of the University of Minnesota at Lake Benton, Minn.; this greatly extends the range of the species to the northeast.

Dr. Morong read the announced paper of the evening on "The Pronunciation of Botanical Names."

TUESDAY EVENING, MARCH 8TH, 1892.

Vice-President Mr. Thos. Hogg in the chair, and fourteen persons present.

The Editor was authorized to present a copy of the Preliminary Catalogue of Anthophyta and Pteridophyta reported as growing within one hundred miles of New York, 1888, to the Philadelphia Botanical Club, and the Committees on the Local Flora were empowered to confer with that organization relative to co-operation in the study of the flora of the vicinity of New York and Philadelphia.

The Literary Committee was increased from three members to four and constituted with Dr. Morong as Chairman, Miss Caskin, Miss Stabler and Dr. Wheelock as associates.

Miss Eloise P. Luquer, of Bedford, New York, and Professor Elwyn Waller, of Columbia College, were elected active members.

Mr. Henry Kraemer, Chairman of the Field Committee of 1891, read a report on the field excursions of last season. The report was accepted and the thanks of the club tendered to Mr. Kraemer for his efficient administration of the work of the com-